Amateur Radio Newsline(tm) Report 1640 - January 16 2009

The following is a closed circuit advisory. Ladies and gentlemen, Amateur Radio Newsline's support Fund Administrator Andy Jarema, N6TCQ:

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Yep its me -- A.J. And if Im here its because Amateur Radio Newsline is in desparate need of your support.

Amateur Radio Newsline has only received enough financial support of late to keep the service going for another month or so. In other words, most of the bills from last year have been paid , but now money has to be raised to keep from loosing the phones and e-mail service from bills accrued in December.

Right now Newsline continues to exist on a week to week basis. He says that It is up to you and the listeners to see that it can continue to provide this vital service. Otherwise he may soon be forced to pull the plug.

Please help us to keep The Amateur Radio Newsline on the air. Our address is the Amateur Radio Newsline Support Fund, Post Office Box 660937 in Arcadia California. The zipcode is 91066. Again and as always, we thank you.

For the support fund, I'm Andy Jarema N6TCQ

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Thank you Andy. Now, Amateur Radio Newsline report number 1640 with a release date of Friday, January 16th, 2009 to follow in 5-4-3-2-1.

The following is a Q-S-T. The National Safety Council says its time to ban all mobile cellphone operations. Would such a measure impact on mobile ham radio operations? Also, a study by the National Academy of Sciences says that the coming solar cycle maximum could cause havoc to communications, President-elect Barack Obama makes his choice for the next FCC Chairman and an earthquake in Costa Rica leads to a communications emergency declaration on a 40 meter frequency. Find out the details on Amateur Radio Newsline(tm) report number 1640 coming your way right now.

(Billboard Cart Here)

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RADIO SAFETY: NSC WANTS TOTAL BAN ON MOBILE CELLPHONE USE

The National Safety Council is calling for a total nationwide driver ban on the use of cell phones including hands-free devices. Don Carlson, KQ6FM, reports:

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In an announcement on Monday, January 12th, the National Safety Council not

only issued a plea directly to motorists to stop using the devices, but also urged businesses to enact policies limiting the use of cell phones by their employees. The Congressionally-chartered agency also called on states to pass more laws banning the use of wireless communications devices while driving.

California, Washington state, Alaska, the District of Columbia, Louisiana, Minnesota, and New Jersey all have laws on the books that ban the use of a mobile phone without a hands-free device. But the Councils proposal wants to eliminate even these hands-free exemptions.

The National Safety Council news release does not mention Ham radio, C-B radio or any other two-way radio based application other than cellphones and text messaging. However in mustering support for its campaign, the organization cites numerous studies including one by the Harvard Center of Risk Analysis. That one found that driver use of cell phones contributes to 636,000 crashes each year. This it says leads to 12,000 serious injuries and 2,600 annual deaths.

For the Amateur Radio Newsline, I'm Don Carlson, KQ6FM, in Reno.

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Needless to say, all two way mobile radio users, including hams, will have to watch carefully for any state or federal laws that might develop out of the National Safety Council total cellphone ban request. (Published news reports)

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RECUE RADIO: COSTA RICA QUAKE LEADS TO EMERGENCY COMMUNICATIONS DECLARATION

A magnitude 6 point 2 earthquake that hit the Central American country of Costa Rica on Thursday, January 8, has brought a declaration of a communications emergency for a ham radio frequency. The Radio Club de Costa Rica, which is that country's IARU member society, says that it is monitoring local repeaters and 7 dot 090 MHz on 40 meters. Because of this, IARU Region 2 Emergency Communications Coordinator Cesar Pio Santos, HR2P, requested that 7 point 090 MHz be kept clear of non-essential traffic due to possible emergency communications dealing with the earthquake.

The temblor, with an epicenter located about 22 miles northeast of the city of San Jose hit after a series of seismic events rocked the country in recent days. Until an all clear is issued, hams not involved in the current emergency should avoid interfering with Spanish language SSB operations while they are using digital modes. (ARRL, others)

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RESCUE RADIO: NEW STUDY SAYS SOLAR STORMS COULD BRING DISASTER

A new study from the National Academy of Sciences outlines dire consequences on Earth for a worst-case scenario giant solar storm. Scientists involved in the study say that damage to power grids and other communications systems could be catastrophic. Even ham radio would be affected. Burt Hicks, WB6MQV, has the rest of the story:

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While the sun is in now in a lull period, solar activity is expected to rise sharply in coming years and what is known as severe space weather will ramp up a year or two before the peak in 2012. At its worst, severe space weather in the form of solar flares and other phenomena can produce a storm electromagnetic energy. Once it hits Earth it can disrupt power distribution grids and cause blackouts and also downgrade both terrestrial wire-line and satellite to ground communications.

Severe solar storms can even damage satellites if they are not fully hardened against radiation. Ground based communications, especially on the High Frequency bands used by most radio amateurs would also be adversely impacted during such a solar event.

Daniel Baker, the director of the Laboratory for Atmospheric and Space Physics at the University of Colorado in Boulder was the lead researcher in this study. He says that in the event of a high magnitude solar storm that the social impact could be enormous. This is because emergency services could wind up being strained, and command and control might be lost.

The National Academy of Sciences says that its prediction is based in part on a major solar assault back in 1859. That storm is believed to be the reason that telegraph systems short circuited in both the United States and Europe. According to the new study with the advent of modern computer controlled power grids and relay satellites on-orbit, much more is at risk.

For the Amateur Radio Newsline, I'm Burt Hicks, WB6MQV, in Los Angeles.

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The report was commissioned and funded by NASA. Experts from around the world in industry, government and academia participated. More is on line at
http://www.foxnews.com/story/0,2933,478024,00.html
and
http://in.news.yahoo.com/139/20090109/981/tsc-future-solar-storm-could-shut-down-u.html
(Science OnLine)

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RESTRUCTURING: MODIFIED REGION 1 BANDPLANS NOW ON LINE

A revised IARU region one bandplan is now available on the Radio Society of Great Britain's website. The new plans are based on the outcome of the 2008 IARU Region 1 General Conference. That gathering lead to changes to some of the plans that are now available to all in both PDF and HTML formats from www.rsgb.org/spectrumforum/bandplans/ (Southgate)

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HAM HAPPENINGS: HAM RADIO AND THE INAUGURATION OF PRESIDENT BARACK OBAMA

Amateur Radio will be a part of the inauguration of the 44th President of the United States. At least it will be vicariously. This, with word that

the District of Columbia Amateur Radio Society will be on the air with special event station W3A in honor of the inauguration of Barack Obama as the nationï¿½s new leader.

W3A will be on the air during the week of January 17th to the 24th on all bands, but likely concentrating on 80, 40 and 20 meters. And, if you make contact with W3A you should send your QSL to either W3DQ with a Self Addressed Stamped Envelope, via the bureau or electronically, using Logbook of the World. (N0DRC)

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RADIO POLITICS: PRESIDENT-ELECT OBAMA TO NAME GENACHOWSKI TO CHAIR FCC

Several news reports say that President-elect Barack Obama plans to nominate a key technology advisor to be the next chairman of the Federal Communications Commission. The person expected to get the top FCC post is Julius Genachowski, who held several positions at the FCC during the administration of President Bill Clinton.

Genachowski served as an executive at I-A-C InterActive Corp. from 1997 to 2005 and as a law clerk at the Supreme Court from 1992 to 1994. He and the President-elect were friends at Harvard Law School.

The Obama team would not confirm earlier reports of the planned appointment. The person knowledgeable about the plans to nominate Genachowski spoke on condition of anonymity because the decision has not been formally announced. (Various)

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BREAK 1

 From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the W7FTX Bitterroot Amateur Radio Club repeater, serving Hamilton, Montana.

(5 sec pause here)

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COMMUNICATIONS LAW: FTC SHUTS DOWN SCAREWARE SELLERS

The US government has moved to shut down sellers of fake security software. This, as the Federal Trade Commission announces that it has won a restraining order that stops several sellers of scareware from continuing to market their wares. Rebecca Bruce is here with the details:

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Scareware is software that misleads a computer user into believing that his system may be infected with viruses, spyware or other malicious programs that could harm or destroy data. Now, a U S District court has granted an injunction which stops Innovative Marketing and Byte Hosting Internet Services from continuing to advertise their products, and from making what

the Federal Trade Commission says are false claims about their efficacy.

Court papers submitted by the FTC assert that the peddlers of the fake security software first trick legitimate websites into advertising their products. Then, anyone clicking on a scareware advertisement is then taken to the webpages run by the fake security firms. There a so-called scan of the consumers hard drive takes place looking for security problems. The FTC claims that every scan finds a host of security problems like viruses and spyware and urges visitors to buy their brand of software to fix them.

The Federal Trade Commission says that it is pursuing further legal action to win a permanent ban on those peddling the scareware. It has also asked firms hosting the websites owned by these firms to block customers from accessing them while at the same time freezing the assets of the two companies. This, so that it can reclaim cash and refund those were caught in the alleged scam. The government says that the possibility exists that millions of people may have been caught by the many scareware schemes that are roaming the Internet these days.

For the Amateur Radio Newsline, I'm Rebecca Bruce, in Los Angeles.

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While the Federal Trade Commission can shut down scareware sellers here in the United States, it will have a lot harder time with those who operate overseas, especially in countries that spend little time in oversight of Internet based business. (BBC, others)

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RADIO LAW: FCC SAYS NO TO CITIZENS CHALLENGE OF RADIO STATION LICENSE

A citizens request that the FCC deny the renewal of the license of a non-commercial radio station has been turned down by the agency. This, as the FCC tells William Crozier of Union City, Oklahoma, that his challenge amounts to little more than a difference of opinion with Creative Educational Media Corporation, Inc., over what types of programming best serve the needs of the community of Moore, Oklahoma.

Way back on January 24, 2005, Creative Educational Media filed for renewal of the license of its non-commercial educational station KMSI-FM. On April 29, 2005, William Crozier filed an informal objection alleging that Creative lacked local programming and challenging its non-profit status. Creative filed its opposition on May 12, 2005. The FCC agreed with Creative, and on July 13, 2007, it released a Staff Decision which both denied Crozier's objection and granted the KMSI renewal application. At that time the FCC said that there was no substantial and material question of fact that grant of the renewal application would be inconsistent with the Communications Act.

On August 21, 2007 Crozier filed a Petition for Reconsideration still claiming that Creative still lacked local programming. Now, in its January 9, 2009 announcement, the FCC notes that Crozier's Petition was late-filed and was being dismissed on that basis. The FCC adds that this action is consistent with the D.C. Circuit's decisions on whether the Commission has failed to adhere to its procedural rules for providing notice of its

decisions. It notes that no such circumstances are present here. (FCC)

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THE DTV TRANSITION: THE FEBRUARY 17 DTV SWITCH DATE MAY SLIP

President-elect Barack Obama is urging Congress to postpone the February 17 Digital Television switch date. This, for fear that too many people aren't ready. Obama has been joined by a small chorus of U-S Senators and Representatives, including Representative Ed Markey of Massachusetts. Markey is Chair of the House Subcommittee on Telecommunications and the Internet. Each has his or her own reason to hold off on fully implementing the new technology until various real or perceived hurdles can be overcome.

Also joining the call to delay the February 17th date is Detroit Mayor Ken Cockrel Jr. In a letter to FCC Commissioner Michael Copps, a Federal Communications Commissioner, Cockrel said despite a massive outreach effort to get converter boxes in the hands of those who still use a television antenna to receive a signal, too many would be left with no television service when the changeover occurs. Cockrel claims that seniors, the poor and first-generation immigrants especially would be hit hard.

The politically powerful Consumers Union also wants the transition put on hold. In a letter sent to a number of key government officials, the Consumers Union suggested the government's inability to issue new coupons, on top of concerns about the number of call centers and the amount of assistance to viewers, should prompt a re-examination of the switchover date.

However, a delay is not a certainty at this time, so the only conservative course of action is to stick with the current February 17th DTV switch plans unless and until an official postponement is announced. (CGC, others)

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THE DTV TRANSITION: DTV HELP GROUPS CHOSEN BY FCC

Delay or no delay, the FCC has identified a dozen grassroots groups that will get $8.4 million in Digital TV education money from the regulatory agency. The groups will be using the funds to conduct seminars, help viewers buy and install Digital -to-analog converter boxes, provide call centers, and more. Jeff Clark, K8JAC, has the details:

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According to the Waveform broadcast industry newsletter, the largest grant of $2,719,947 is going to the American Association of Retied People. AARP will use it to create call centers targeted at senior citizens.

In addition to AARP, others getting funds include Communications Services for the Deaf, the Hispanic Information and Telecommunication Network, The Mayor's Commission on Technology, noncommercial station WXXI, Iowa Public Broadcasting Board, Idaho Public Television, and several others. The FCC says it looked for groups who would target key populations such as minorities, senior citizens and the disabled who are most at risk of losing

over-the-air TV service or most in need of help to continue to receive a TV signal. It also looked for organizations that could focus on the 82 markets with the greatest number of over-the-air analog viewers.

The money for this project comes from $20 million Congress appropriated last year for Digital TV outreach. President Elect Barack Obama's transition team has been pushing the FCC and broadcasters to make sure there are enough people answering the millions of phone calls expected from viewers in the days surrounding the February 17th transition from analog to planned Digital-only broadcasting of TV.

For the Amateur Radio Newsline, I'm Jeff Clartl, K8JAC

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You may recall that last December the ARRL announced that amateur radio clubs across the country were being asked to voluntarily develop and implement plans to provide information throughout January and February regarding assistance in the Digital Television conversion in their geographic areas. At that time the FCC said that it was leaving it up to the clubs to decide how to do this. This because it felt that local groups can understand the communities in ways that the FCC does not. As of airtime, several ham radio groups have offered their services and according to news stories, all are getting very high marks from their local communities for their work (Waveform, FCC)

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THE DTV TRANSITION: FIRST RESPONDERS WANT EXEMPTION FROM ANY DTV DELAY

Meantime, public-safety organizations asked President-elect Barack Obama to exclude spectrum designated for first responders in any plan to delay the transition to digital television next month. The Association of Public-Safety Communications Officials-International, the International Association of Chiefs of Police, the International Association of Fire Chiefs and the National Public Safety Telecommunications Council have communicated their view to the President-elect. They say that an important benefit of the Digital Television transition is that it clears spectrum in the 700 MHz band for new interoperable radio communications systems for law enforcement, fire, emergency medical and other public-safety agencies.

The groups also note that all fifty states have already received licenses to operate in portions of the reallocated analog television spectrum. They say that many agencies across the nation have already acquired radios capable of operating in the 700 MHz band. They also note that there is also at least one and perhaps a couple other instances in which a public-safety agency has received or is currently seeking special FCC authority to utilize spectrum on a television channel being relinquished as a result of the Digital TV transition. (RCR, DTV News, others)

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RADIO BUSINESS: OVER 1 MILLION HD RADIO MODULES MANUFACTURED

Ibiquity Digital says that, as of early October, 2008, more than 1 million

H D Radio modules have been manufactured for retail radio receivers. This, using the Texas Instruments D-R-I Series chipsets.

Original equipment module manufacturers using the chipsets include Kwang Sung Electronics, LG Innotek, Powertech, Samsung EM, TOKO and Wistron NeWeb. These modules are used in products from Audiovox, Alpine, Coby, CSW, Denon, Dual, Harman/JBL, Insignia, Jensen, JVC, jWIN, Marantz, Onkyo, Pioneer, Polk, Radio Shack, Sangean and Yamaha.

An Ibiquity company spokesman says that this reflects a steady increase in product development that will translate into retail sales during 2009 and beyond. (RW)

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HAM RAFDIO ON THE NET: CQ ANNOUNCES NEW WORLRADIO ON-LINE SIGN-UP LIST

CQ Magazine announced a new e-mail list has been established to notify readers of the availability of each new issue of its latest acquisition, WorldRadio magazine. CQ bought WorldRadio last month and is in the process of converting it to a free online-only publication. You may sign up for the list at several websites all of which can be found at http://mailman.sunserver.com/mailman/listinfo/WorldRadio-L . Direct links to this signup page will be posted on both the CQ magazine website at http://www.cq-amateur-radio.com and the old WorldRadio website at http://www.wr6wr.com . (CQ)

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BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, we are the Amateur Radio Newsline, with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

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HAM IN SPACE HISTORY: REWIND TO 1985 AND STS51F

Word that some long-lost 1985 news footage showing kids in New York City trying to contact Astronaut Tony England, W0ORE, during the STS 51 F shuttle flight has surfaced. You guessed it -- its surfaced on YouTube.com.

The clips are from New York City's Channel 4 WNBC, and Channel 7 WABC. They contains shots of the station set-up at the Rocco Laurie Intermediate School on Staten Island, along with conversations with some of the youngsters waiting for the pass to start and for W-Zero-O-R-E's signal from space to come booming in. Also interviewed is educator Carole Perry, WB2MGP, who for years taught a ham radio class at the school.

From a historical perspective these news clips are a lot of fun to watch. This is especially true if you were a ham back then and tried to contact W0ORE during the STS 51F mission. But you had better act fast to take a

look. With media companies becoming activists in protecting their intellectual copyrights, news clips like these seem to disappear from YouTube almost as fast as they are posted.

And one final thought. Those news stories were taped some 23 years ago. The kids you see are now adults who are likely married with families of their own. We can only imagine the pride some of them might feel sitting in front of their computer with their own kids and telling them that was the day when mommy or daddy spoke to a man in space.

We have one direct link to these news clips at http://www.youtube.com/watch?v=Hf839lfdO90, http://www.youtube.com/watch?v=rHvRDLq-swk and http://www.youtube.com/watch?v=xeU13Iv4nYM   (ARNewsline(tm))

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HAM RADIO IN SPACE: JAPAN TO LAUNCH 7 HAM RADIO MICROSATS

Japan is about to orbit a constellation of small ham radio satellites. JE9PEL has sent out a launch alert for seven tiny Cubesat amateur radio satellites planned as secondary payloads. This, when Japan launches its GOSAT IBUKI satellite on January 21st.

GOSAT stands for Greenhouse gases Observing Satellite, and is an environmental monitoring satellite. It, along with the ham radio payloads, will be launched from Japan's Tanegashima Space Center aboard the H-IIA F15 booster slated for liftoff at 03:54 UTC. .

More news about the 7 Cubesats is expected shortly. Information about the primary GOSAT mission and the launch vehicle carrying all the birds into space can be found on-line at http://www.jaxa.jp/countdown/f15/overview/ibuki_e.html http://www.jaxa.jp/projects/sat/gosat/index_e.html Information about the launch vehicle can be found on-line at: http://www.jaxa.jp/countdown/f15/overview/h2a_e.html) (ANS)

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WORLDBEAT: CHILIAN HAMS TO ASSIST IN MISSING QSL PROCESS

Turning to news from around the world, a group of Chilean radio amateurs is offering to try to help obtain a missing card or cards by carrying out searches and making inquires in Chile. This service is offered as a goodwill gesture by some Chilean hams and is completely free. To use the service you need to contact Josï¿½ Luis Jimï¿½nez. His email address is ce1kr (dot) joseluis (at) gmail (dot) com. You can write to him in Spanish or English. Full details are available on the website http://hunting-qsl (dot) blogspot (dot) com (Southgate)

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WORLDBEAT: REPORT ON BROADCASTS TO CUBA ISSUED BY STATE DEPARTMENT

The United States funded broadcasts to Cuba as Radio and Television Marti

have improved significantly in recent years. This, according to a draft State Department review of the Office of Cuba Broadcasting. But it is unclear as to how many people are watching and listening to the stations that are designed to offer an alternative to the tightly controlled Cuban media.

The report was made public late month on the eve of a congressional debate over future Cuba-related funding. It cites a boost in the ability of TV Marti's signals to reach Cuba, but it bases those conclusions on anecdotal evidence not included in the report.

The review lauded the broadcasting office's use of a Gulfstream jet to beam signals into Cuba. It stated that this system held the potential of being replicated in other parts of the world where governments attempt to block U.S. broadcasts.

Radio and TV Marti are requesting $33 million in this fiscal year's budge. Thats, down from $38 million they received in 2007. (RW)

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RADIO AWARDS: CQ TO ACCEPT EQSL FOR AWARDS PROGRAMS

CQ magazine says that effective immediately it will begin accepting contact confirmations made on the eQSL electronic Q-S-O validation system for its operating awards. According to CQ editor Rich Moseson, W2VU, there will be certain limitations and procedural differences for different awards, at least to start. Only confirmations from "Authenticity Guaranteed" members of eQSL will be accepted. This means that in accordance with existing eQSL policy, a membership level of bronze or higher is required in order to participate in award programs via eQSL.

According to Moseson, this is the first time that CQ has formally accepted anything other than traditional paper QSL cards for its awards. He says that CQ has been working with eQSL's Dave Morris, N5UP, and his team for several months to assure that the integrity of the awards programs will be protected. They also had to create mechanisms to make it easy for both award applicants and managers to use eQSL credits toward CQ-sponsored awards.

More information about how the CQ eQSL-based system will work is on line on the awards page at www.cq-amateur-radio.com. Information on eQSL is on the world-wide-web at www.eqsl.cc. (CQ)

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DX

In DX, word that Vietnam is back on the air. This as OM2DX reports that he is now in Hanoi and is working for the Embassy of the Slovak Republic. Mike has obtained a license with the callsigns XV9DX and 3W1M. He is expected to be there for the next 3 years and be active on all bands using CW, SSB and the Digital modes. QSL via OM3JW.

KK9A says that he will be active from Aruba as P40A during the ARRL DX SSB Contest. That's March 7th and 8th. John says that he will operate as a

Single-Operator All-Band entry. QSL him via WD9DZV.

And F5LGQ will be active from Reunion Island as TO4IPA through January 31st. If you make contact please QSL as directed on the air.

An international group of YLs will activate the Falkland Islands (SA-002) between January 17th and the 31st. Each operator will be signing with the callsign VP8YL, plus a third letter of the suffix that will be assigned at beginning of the operation. QSL via the operator's home callsign as directed on the air.

8Q7AK will be operational through January 27th from Embudu Island in the Maldives. He will use SSB and CW on 40 through to 10 meters including WARC frequencies. For comprehensive details of operating times, suggested frequencies and QSL information, please check 8Q7AK on QRZ.COM

A group of Chilean operators from the Atacama region will activate special event station XR27RAID through January 24th. This outing is in celebration of the 27th Raid Atacama Desert Trophy which takes place from January 20th to the 25th. Operations will be on all bands using CW, SSB and PSK. QSL via HA1AG, either direct or via the Bureau.

And the E44M operation from Palestine is now QRT. If you made contact with E44M you can either QSL direct, by the Bureau or electronically using Logbook to the World. An online log search is available at www.hamradioweb.org/e44mlogsearch.html

Above from various DX news sources.

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THAT FINAL ITEM: RADIO FROM SPACE: NASA BALLOON FINDS NEW SPACE QRN

And finally this week, listening to the early universe has become a lot harder. This, as a team led by researcher Alan Kogut of NASA's Goddard Space Flight Center in Greenbelt, Maryland, announces the discovery of cosmic radio noise that is at least six times louder than expected. Amateur Radio Newsline's Bruce Tennant, K6PZW, reports:

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The finding comes from a balloon carried instrument named ARCADE. ARCADE stands for the Absolute Radiometer for Cosmology, Astrophysics, and Diffuse Emission. In July 2006, the instrument flew to an altitude of 120,000 feet, where its mission was to search the sky for heat from the first generation of stars. Instead, it found a cosmic puzzle.

Instead of the faint signal researchers hoped to find, it heard what Kogut called a booming noise six times louder than anyone had predicted. Detailed analysis ruled out an origin from primordial stars or from any known radio sources, including gas in the outermost halo of our own galaxy. As of now. Kogut says that the source of this cosmic radio background remains a mystery.

For the amateur Radio Newsline, Im Bruce Tennant, K6PZW, in Los Angeles

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Many objects in the universe emit radio waves. In 1931, American physicist Karl Jansky first detected radio static from our own Milky Way galaxy. Similar emissions from other galaxies creates a background hiss type QRN, as its radio noise. (Goddard Space Flight Center News Release)

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NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's WIA News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is newsline (at) arnewsline (dot) org. More information is available at Amateur Radio Newsline's(tm) only
official website located at www.arnewsline.org. You can also write to us or support us at Amateur Radio Newsline(tm), P.O. Box 660937, Arcadia, California 91066.

For now, with Bill Pasternak, WA6ITF, at the editors desk, I'm Don Wilbanks, AE5DW, saying 73 and we thank you for listening.

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